



## SEQUENCE LISTING

<110> AKZO Nobel NV

<120> An infectious bursal disease virus (IBDV) mutant expressing virus neutralising epitopes specific for classic- and variant IBDV strains

<130> 2003-002-FF-US

<160> 37

<170> PatentIn version 3.2

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&lt;223&gt; Mutant of classic IBVD

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Asp Gly Gln Glu Gly Glu

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Gly Gly Gln Glu Gly Glu

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1				5				10					15			

gac	ccc	att	cct	gct	ata	ggg	ctt	gac	cca	aaa	atg	gta	gcc	aca	tgt	96
Asp	Pro	Ile	Pro	Ala	Ile	Gly	Leu	Asp	Pro	Lys	Met	Val	Ala	Thr	Cys	
			20				25						30			

gac	agc	agt	gac	agg	ccc	aga	gtc	tac	acc	ata	act	gca	gcc	gat	gat	144
Asp	Ser	Ser	Asp	Arg	Pro	Arg	Val	Tyr	Thr	Ile	Thr	Ala	Ala	Asp	Asp	
		35					40					45				

tac	caa	ttc	tca	tca	cag	tac	caa	tca	ggg	ggg	gta	aca	atc	aca	ctg	192
Tyr	Gln	Phe	Ser	Ser	Gln	Tyr	Gln	Ser	Gly	Gly	Val	Thr	Ile	Thr	Leu	
	50				55						60					

ttc	tca	gcc	aac	att	gat	gct	atc	aca	agc	ctc	agc	att	ggg	gga	gag	240
Phe	Ser	Ala	Asn	Ile	Asp	Ala	Ile	Thr	Ser	Leu	Ser	Ile	Gly	Gly	Glu	
65					70					75					80	

ctc	gtg	ttc	cat	aca	agc	gtc	caa	ggc	ctt	gca	ctg	aac	gcc	acc	atc	288
Leu	Val	Phe	His	Thr	Ser	Val	Gln	Gly	Leu	Ala	Leu	Asn	Ala	Thr	Ile	
				85					90					95		

tac	ctt	ata	ggc	ttt	gat	ggg	act	aca	gta	atc	acc	aga	gct	gtg	gcc	336
Tyr	Leu	Ile	Gly	Phe	Asp	Gly	Thr	Thr	Val	Ile	Thr	Arg	Ala	Val	Ala	
			100					105					110			

tca	gac	aat	ggg	ctg	act	acc	ggc	atc	gac	aat	ctt	atg	cca	ttc	aat	384
Ser	Asp	Asn	Gly	Leu	Thr	Thr	Gly	Ile	Asp	Asn	Leu	Met	Pro	Phe	Asn	
		115					120					125				



ctt gtg att cca acc aac gag ata acc cag cca atc aca tcc atc aaa 432  
 Leu Val Ile Pro Thr Asn Glu Ile Thr Gln Pro Ile Thr Ser Ile Lys  
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ctg gag ata gtg acc tcc aaa agt ggc ggt cag gca ggg gac cag atg 480  
 Leu Glu Ile Val Thr Ser Lys Ser Gly Gly Gln Ala Gly Asp Gln Met  
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tca tgg tcg gca agt ggg agc cta gca gtg aca atc cat ggt ggc aac 528  
 Ser Trp Ser Ala Ser Gly Ser Leu Ala Val Thr Ile His Gly Gly Asn  
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Asp Ser Ser Asp Arg Pro Arg Val Tyr Thr Ile Thr Ala Ala Asp Asp  
 35 40 45

Tyr Gln Phe Ser Ser Gln Tyr Gln Ser Gly Gly Val Thr Ile Thr Leu  
 50 55 60

Phe Ser Ala Asn Ile Asp Ala Ile Thr Ser Leu Ser Ile Gly Gly Glu  
 65 70 75 80

Leu Val Phe His Thr Ser Val Gln Gly Leu Ala Leu Asn Ala Thr Ile  
 85 90 95

Tyr Leu Ile Gly Phe Asp Gly Thr Thr Val Ile Thr Arg Ala Val Ala  
 100 105 110

Ser Asp Asn Gly Leu Thr Thr Gly Ile Asp Asn Leu Met Pro Phe Asn  
 115 120 125

Leu Val Ile Pro Thr Asn Glu Ile Thr Gln Pro Ile Thr Ser Ile Lys  
 130 135 140

Leu Glu Ile Val Thr Ser Lys Ser Gly Gly Gln Ala Gly Asp Gln Met  
 145 150 155 160

Ser Trp Ser Ala Ser Gly Ser Leu Ala Val Thr Ile His Gly Gly Asn  
 165 170 175

Tyr Pro Gly Ala Leu Arg Pro Val Thr Leu Val Ala Tyr Glu Arg  
 180 185 190